

Construction Environmental Management Plan (Construction Method Statement)

Proposed Housing Development

Client Mr C Iddon

Site Name – Land Adjacent

The Stables

Chaigley Road

Longridge

PR3 3TQ

REPORT ISSUE

Issue / Revision	Issue 1	Revision 2	Revision 3	Revision 4
Remarks				
Date				
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1.0 DUST MANAGEMENT PLAN

Activities undertaken during the construction phase of a development have the potential to generate fugitive dust emissions. The site is bounded with open fields to the north west, with existing residential properties to the south west and east. Mitigation measures will therefore be needed to reduce dust effects beyond the site boundary. These are intended to be stringent but achievable and in line with the Best Practical Means (BPM).

Suitable mitigation measures have been identified through a review of The Greater London Authority 'Best Practice Guidance: The Control of Dust and Emissions from Construction and Demolition'. McDermott Homes will ensure that all on-site contractors follow BPM at all times to minimise dust emissions. These are set out in the following Sections.

It should be noted that there will be no construction works outside the following hours:

- ☐ Monday – Friday 08:00 – 18:00; and,
- ☐ Saturday 09:00 – 13:00.

In addition no construction work will take place on a Sunday, Bank or Public Holidays.

At all times the contractor will take a proactive approach to pollution risk arising from exposure to dust generation in order to minimise risk to the water course. The areas around the site will be regularly inspected and cleaned off as necessary to prevent the accumulation of dust. Any rubbish skips within the site will be covered. Regular cleaning of all site surfaces will be undertaken including by mechanical means where required to ensure any build up of dust is not transferred to the water course. Should cutting of materials within the site be required by certain trades then their activity will be required to utilise the appropriate plant to capture any dust generated at source.

Any incident that could have had an environmental impact to the water course will be reported to the environmental incident help line: 0800807060 (<https://www.gov.uk/report-an-environmental-incident>),

1.1 Preparation

1.1.1 Site preparation

Machinery, fuel storage and dust generating will be located away from the site boundary and sensitive receptor locations as far as practicable.

1.1.2 Training, Awareness and Competency

All site personnel will receive training on health and safety, BPM, site housekeeping and pollution policy. Inclusion of these items as part of site induction training should be considered. Additionally, all staff will be aware of reporting procedures and a trained and responsible manager will be on site during working hours to maintain the logbook and carry out inspections.

1.2 Site Planning

1.2.1 Site Layout

Careful consideration will be given to site layout and, where possible, dust generating activities are to be located away from the boundary and sensitive receptor locations. However, it should be noted that due to the nature of construction this will not always be possible. Due to the meteorological conditions of the area, wind-blown dust effects are most likely to occur towards the west of the site. This will be considered when verifying impacts during routine inspections.

1.2.2 Access Drive

Un-paved roads can account for a significant proportion of fugitive dust emissions. However, due to the small size of the site it is proposed the new access drive from Chaigley Road will be completed and brought up to base course before housebuilding activity within that phase is commenced.

The access driveway will be dampened down when the surface is dry and prone to producing dust. Run off from the dampening down procedure will be directed to drainage points that are identified on site prior to the start of works. All contractors working within the site should be made aware of the potential implications of any materials being discharged into the watercourse.

1.2.3 Dust Suppression

The single route within the site is to be water sprayed and swept clean as necessary. The use of recycled or 'grey' water for the purposes of the dust suppression will be considered. All excess run off water will be directed to identified drainage points to ensure no impact to the watercourse.

It is necessary to continuously monitor for dust throughout the day. This will be in the form of visual inspections undertaken by the site manager. Records of any significant emissions or impacts will be maintained within a log book.

The above dust suppression measures are considered sufficient mitigation to prevent impact to Neighbouring properties.

1.3 Construction Traffic

1.3.1 Site Entrance

Access is Via Chaigley Road.

1.3.2 Vehicle Speed Limits

An appropriate speed limit of **3 miles per hour** will be implemented on site to reduce dust re-suspension from road vehicles.

1.3.3 Prevention of Dust from Vehicle Movements

Vehicles leaving the site have the potential to transport dust beyond the boundary through trackout. The use of hand held jet wheel washing upon leaving the site will be implemented, as well as procedures for effective cleaning and inspection of vehicles.

The entrance and exits to the site are to be cleaned as necessary. The use of recycled or 'grey' water will be considered. Any excess run off will be directed to identified drainage points.

Vehicles carrying dusty materials are to be securely covered and information about vehicles entering and leaving the site, and their loads, will be recorded by the site manager.

Plant and material deliveries shall be avoided during peak hours ie: between 8:00 to 9:00am and 4:30 to 5:30pm

1.3.4 Reduction of Vehicle Emissions

Vehicles will avoid leaving engines idling and queuing of vehicles entering the site will be controlled.

1.4 Site Activities

All site activities will be undertaken in accordance with an approved Method Statement produced by The main Contractor. This will consider potential dust emissions where relevant.

1.4.1 Excavation and Earthworks

Excavation and earthworks will be undertaken throughout the site in order to prepare the foundations for the relevant plot. Significant earth moving works will not take place on windy days if variations to construction programme are possible. Where applicable, water is to be used as a dust suppressant during excavation and earth moving activities. Any runoff will be directed to designated drainage points. Any exposed areas will be re-vegetated as the development progresses. All waste in vehicles leaving site will be secured and skips will be covered (where appropriate).

1.4.2 Stockpiling

Stockpiles are to be kept for the shortest possible time and the height minimised. The predominant wind direction will be taken into account when sitting stockpiles to reduce the likelihood of effects upon sensitive receptors. Daily checks for dust will be carried out by the site manager to prevent dust build up.

1.4.3 Site Machinery

The use of diesel and petrol powered generators will be minimised by using mains electricity as a power source for site machinery as far as possible.

The greatest risk of spillage can occur during refuelling of mobile plant and machinery. All refuelling will take place in a designated area, on an impermeable surface away from drains and the watercourse. A spill kit will be available in this location and the operatives will be informed of the need for caution when refuelling machinery to ensure no harm to the environment.

The use of concrete batchers and crushers are regulated as Part B processes under the Environmental Permitting Regulations (2010). As such, the Local Authority will be notified if a concrete batcher or crusher is to be used on site. A copy of the permit will be kept on site and the operations recorded in the site log-book.

1.4.4 Cutting, Grinding and Sawing

Cutting, grinding and sawing activities will not be conducted on site where possible and prefabricated material will be imported. If cutting, grinding and sawing on site is necessary, all equipment will have either water suppressants or dust extraction systems installed.

1.4.5 Fitting Out

All machinery for activities such as plastering, sanding and rendering are to be fitted with dust suppression and/or collection equipment.

1.4.6 Waste Disposal

Burning of any materials will not be permitted on site. All wastes will be recycled or disposed of in accordance with relevant legislation.

Waste Contractors will be checked prior to being selected to ensure they meet our duty of care requirements. Waste Contractors will be made aware of the site operation in close proximity to the water course to the north of the site.

1.5 Summary of Mitigation Measures

Reference should be made to Table 1 for a summary of mitigation measures to be implemented on the site.

Table 1 Summary of Dust Mitigation Measures

Issue	Control Measure
Site Planning	• No bonfires • Plan site layout – machinery and dust causing activities will be located away from sensitive receptors • All site personnel to be fully trained • Trained and responsible manager on site during working times to record activities and carry out inspections
Construction Traffic	• Vehicles to avoid leaving engines idling • Effective vehicle cleaning and specific fixed wheel washing on leaving site and damping down of haul routes • All loads entering and leaving site to be covered • Avoid site runoff of water or mud • On-road vehicles to comply to set emission standards • Minimise movement of construction traffic around site • Hard surfacing and effective cleaning of haul routes • A site speed limit of 15 miles per hour to be implemented
Earthworks	• Minimise dust generating activities • Use water as dust suppressant where applicable • Re-vegetate earthworks and exposed areas
Construction Works	• Ensuring concrete batcher and crusher has permit to operate • On-site cutting, grinding and sawing activities to use water suppressant or appropriate dust extraction systems • Machinery for plastering, sanding or rendering to be fitted with dust suppression/collection equipment

1.6 CONTROL OF NOISE AND VIBRATION LEVELS

All Works shall comply with BS 5228 Construction & open sites : COP for noise and vibration control.

The Developer will undertake all available means to reduce the likelihood of elevated levels of noise and vibration from the works. Where levels may be exceeded the Developer will take appropriate action to prevent or adequately control exposure according to principles of best practice.

Firstly, the risk assessment identifies that emissions of noise and vibration may arise from vehicles and machinery associated with the works. The Developer will ensure all vehicles and mechanical plant used for the purpose of the works will comply with current legislation regarding noise and vibration emissions.

Throughout the works the Developer will comply with the following:

- All vehicles and mechanical plant used during the works will be fitted with effective exhaust silencers and will be maintained in good and efficient working order,
- All generators and compressors will be 'sound reduced' models, fitted with properly lined and sealed acoustic covers, which will be kept closed whenever the machines are in use,
- All pneumatic percussive tools will be fitted with mufflers or silencers of the type recommended by the manufacturers,
- All airlines will be maintained and checked regularly to prevent leaks,
- Plant and equipment in intermittent use will be shut-down, or throttled down to a minimum, in the intervening period between work activities,
- All pumps will be fitted with effective exhaust silencers and will be maintained in good and efficient working order. All dewatering pumps will be 'sound reduced' models fitted with properly lined and sealed acoustic covers,
- All stationary plant will be screened, where reasonably practicable,
- The Developer will avoid the over-night operation of generators and/ or compressors, using mains power instead, where reasonably practicable to do so. Where the use of generators cannot be avoided, measures will be taken to avoid noise transmission beyond the site boundaries, particularly where residential property adjoins the site. Silenced generators will be used in this instance.

The location and nature of off-site receptors will be taken into account when arranging and/or managing site activities in order to minimise noise at the site boundaries, as far as reasonably practicable and will include the following:

- Selective location of generators and other stationary plant and equipment,
- Use of mobile noise screens where impacts of noise may occur,
- Limiting the amount of working plant at any time, and

- Silencing plant.

The Developer will consider the location of works associated with high levels of vibration in relation to identified receptors to prevent damage to adjacent and other properties.

Please note no piling works are required on this development.

1.7 WHEEL CLEANING FACILITIES

A fixed wheel-wash facility will be provided on site in the form of a jet wash, this will be managed by the ground-works contractor and supervised by the Site Management. Plant, wheel and boot washing will be carried out in a designated area, away from areas where particles could enter the watercourse.

During the initial Groundworks phase road sweepers will be employed daily to ensure off site roads are kept clean.

Following construction of the roads and sewers a road sweeper will generally be employed once a week (usually Friday afternoon) however this will be at the discretion of the site management and can be increased from time to time as required.